

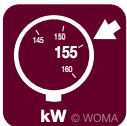
Ultra-high pressure pumps, 03-series  
2503 | 1853 | 1503 | 1003 | 503

# WOMA® Pumps

Operating pressures up to 3625 psi/250 bar and rated volume up to approx. 400 l/min<sup>1)</sup> make this series a specialist for de-scaling operations as well as drain and pipe cleaning.

The series, developed in keeping with the ATEX- and API-standards\*, has a modular design, which opens up a variety of possibilities, allowing you to vary the output parameters simply by changing the interchangeable plunger set. The pump is designed for suction flow temperatures up to 65°C with possibilities for up to 90°C\*\*. That makes the 03-series unequalled. The high-pressure plunger pumps of this series are slow-speed pumps and are therefore especially low-wear during operation. This increases the operating time between maintenance cycles. An auxiliary shaft to which you can connect a second pump, gives the system the ability to double the output.

\* pressure-dependent and volume flow-dependent, \*\* optional  
<sup>1)</sup> 1 liter  $\hat{=}$  3.785 US.liq.gal



## Example of an available model



Alle Abbildungen  
nur Modellbeispiele

WOMA® Ultrahochdruck-Pumpe 1503

## Technical Features

### Gear Box

- Proven gear box with 3 available ratios (WOMA® standard)

### Pump head

- Optimised-flow valve arrangement
- Maintenance-free plunger or piston seals
- Long life
- Stress alternation-free pump head

### Interchangeable plunger set

- Plunger seals with lamellar sealing package
- High-quality plunger of ceramic or special steel

### Additional equipment

- Pressure control valve with manual or pneumatic control
- Full-stroke safety valve

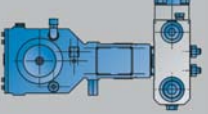



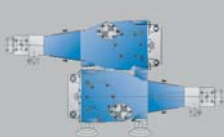
### Special model

- Pump head, interchangeable plunger set and valves in special materials for aggressive media being pumped, e.g. sea water
- Water temperature above 65°C

### Directives and standards


- ATEX 94/9/EC
- API 674 (pressure and volume flow-dependent)
- Quality management system according to DIN ISO EN 9001

## Features of the 03-series

	Plunger diameter (mm)	Gear ratio			Crankshaft speed (1/min)	Required driving power (kW)	Max. flow rate (l/min)*	Max. permissible operating pressure (psi / bar)
		Drive speed (1/min) 1500	Drive speed (1/min) 1800	Drive speed (1/min) 2100				
<b>503</b> 	30	-	-	-	1000	34	74	3625/250
	30	-	-	-	750	25	56	3625/250
	30	-	-	-	625	21	46	3625/250
	30	-	-	-	500	17	37	3625/250
	35	-	-	-	1000	37	102	2900/200
	35	-	-	-	750	28	76	2900/200
	35	-	-	-	625	23	63	2900/200
	35	-	-	-	500	18	51	2900/200
	40	-	-	-	1000	39	133	2320/160
	40	-	-	-	750	29	100	2320/160
	40	-	-	-	625	24	83	2320/160
	40	-	-	-	500	19	66	2320/160
	45	-	-	-	1000	39	169	1815/125
	45	-	-	-	750	29	127	1815/125
	45	-	-	-	625	24	106	1815/125
	45	-	-	-	500	19	84	1815/125
<b>1003</b>   Installation variations	50	-	3.63	-	495	58	210	2175/150
	50	3.00	-	-	500	59	212	2175/150
	50	3.63	-	-	413	49	175	2175/150
<b>1503</b>   Installation variations	50	-	3.69	-	488	99	267	2900/200
	50	2.96	-	-	507	102	278	2900/200
	50	3.69	-	-	406	82	223	2900/200
	55	-	3.69	-	488	102	325	2465/170
	55	2.96	-	-	507	106	337	2465/170
	55	3.69	-	-	406	85	270	2465/170
	60	-	3.69	-	488	100	387	2030/140
	60	2.96	-	-	507	104	402	2030/140
	60	3.69	-	-	406	83	323	2030/140

\* 1 liter = 3.785 US.liq.gal

## Features of the 03-series

	Plunger diameter (mm)	Gear ratio			Crankshaft speed (1/min)	Required driving power (kW)	Max. flow rate (l/min)*	Max. permissible operating pressure (psi / bar)
		Drive speed (1/min) 1500	Drive speed (1/min) 1800	Drive speed (1/min) 2100				
<p>1853</p>   <p>Installation variations</p>	50	-	-	4.57	460	116	250	3625/250
	50	-	3.69	-	488	123	266	3625/250
	50	-	4.57	-	394	99	215	3625/250
	50	2.96	-	-	507	127	276	3625/250
	50	3.69	-	-	407	102	222	3625/250
	50	4.57	-	-	328	82	179	3625/250
	55	-	-	4.57	460	118	304	3045/210
	55	-	3.69	-	488	125	323	3045/210
	55	-	4.57	-	394	101	261	3045/210
	55	2.96	-	-	507	130	336	3045/210
	55	3.69	-	-	407	104	269	3045/210
	55	4.57	-	-	328	84	217	3045/210
	60	-	-	4.57	460	121	363	2610/180
	60	-	3.69	-	488	128	386	2610/180
	60	-	4.57	-	394	103	311	2610/180
	60	2.96	-	-	507	133	401	2610/180
	60	3.69	-	-	407	107	321	2610/180
	60	4.57	-	-	328	86	259	2610/180
<p>2503</p>   <p>Installation variations</p>	50	-	-	4.52	464	118	259	3625/250
	50	-	3.57	-	504	128	281	3625/250
	50	-	4.52	-	398	101	222	3625/250
	50	3.04	-	-	493	125	275	3625/250
	50	3.57	-	-	420	106	234	3625/250
	50	4.52	-	-	331	84	185	3625/250
	55	-	-	4.52	464	141	314	3625/250
	55	-	3.57	-	504	154	341	3625/250
	55	-	4.52	-	398	121	269	3625/250
	55	3.04	-	-	493	150	333	3625/250
	55	3.57	-	-	420	128	284	3625/250
	55	4.52	-	-	331	101	224	3625/250

\* 1 liter = 3.785 US.liq.gal